

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Elmar Stumpf
Application Number: Unassigned
Filing Date: Concurrently Herewith
Group Art Unit:
Examiner:
Title: GAS BURNER FOR LIQUID FUELS

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANT" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

DE 101 61 154 discloses that the burner has an evaporator which is in cone piece consisting of two identical tubular sectors (1, 2), the open ends of which are connected together to the input tube (3). The jet (4) is fitted in the transition zone between the two sectors. The burner includes a baffle device (5) in the form of a plate-shaped metal part.

DE 31 30 542 – English abstract not available.

DE 34 29 686 – English abstract not available.

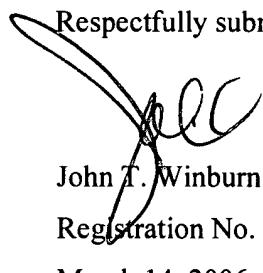
DE 195 18 787 discloses that the burner has several oil vapour jets introduced radially or axially into the airstream. These jets are free of turbulence. Preferably the evaporation takes place in conditions differing from atmospheric. The fuel vapour in front of the nozzle outlet is under a gauge pressure between 10 and 1000 kPa, preferably between 100 and 500 kPa.

DE 100 42 479 discloses a catalytic fuel oxidation unit includes a capillary flow path where liquid fuel is transported, preferably under no external pressure. At the end of the capillary section, the fuel is evaporated. Vaporized fuel is mixed (3) with air. A gas-permeable catalyst (4) surrounds the mixing zone where pre-mixed fuel and air are oxidized with atmospheric oxygen. A thermal conductor (6), preferably metal, supplies heat back to the capillary section, to cause vaporization of the liquid fuel. An Independent claim is included for the catalytic oxidation of fuel. Energy for vaporization of the fuel is supplied to it through

the material forming the capillaries. Preferred Features: Two nested tubes (1, 2) form an annular zone, with a catalyst (4) including a mixing zone (3) at one end. The tubes project into the mixing zone. The catalyst includes a heat transfer unit (6) with built-in thermally-conductive material. The catalyst is surrounded by thermally-conductive material. In the annular gap, fluid-permeable material is included, especially mineral, glass or metal wadding. The catalyst is for oxidation, and is preferably made of ceramic foam, especially with three-dimensionally cross-linked pores. A water supply is provided, if appropriate via one or more annular gaps. Heat produced by oxidation in the catalyst is transferred into the annular gap, by thermally-conductive material, preferably metal, and is used to evaporate the fuel. Water is supplied in addition, so that the burner can be operated as a reformer. The temperature at which fuel emerges from the flow path with capillary effect, lies below the self-ignition temperature of the fuel.

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANT" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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March 14, 2006

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

Approved for use through 07/31/2008. GMD 003-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 2

Application Number **Unassigned**

Filing Date **Herewith**

First Named Inventor Elmar Stumpf

Art Unit

Examine

Attorney Docket

Attorney Docket Number 2003P01328WOUS

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		DE 101 61 154	06-18-2003	Elmar Stumpf et al		
		DE 31 30 542	02-17-1983	Ernst Roehner		
		DE 34 29 686	02-20-1986	Friedhelm Kuehn et al		
		DE 195 18 787	11-28-1996	Stephan Hermann		
		DE 100 42 479	03-14-2002	Franz Fuder et al		
		GB 2 236 588	04-10-1991	Phillip J. Millener et al		✓

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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Application Number	Unassigned
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First Named Inventor	Elmar Stumpf
Art Unit	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		International Search Report for PCT/EP2004/010404				

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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